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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/632,632	08/01/2003	James J. Rawnick	7162-71 2764		
39207	7590 09/09/2004		EXAMINER		
SACCO & ASSOCIATES, PA			JONES, STEPHEN E		
P.O. BOX 30999 PALM BEACH GARDENS, FL 33420-0999			ART UNIT	PAPER NUMBER	
TALM BLACT GARBENS, TE 33420-0777		2817			
		DATE MAILED: 09/09/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/632,632	RAWNICK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Stephen E. Jones	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
·— · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/1/03,9/10/03	4) ☐ Interview Summary Paper No(s)/Mail Da 5) ☐ Notice of Informal P 6) ☐ Other:					

Application/Control Number: 10/632,632 Page 2

Art Unit: 2817

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pinson in view of John et al.

Pinson teaches an RF waveguide cavity including: waveguide subcavity channels (e.g. see Figs. 5 and 3) within the waveguide 54; a ferromagnetic fluid is disposed in the cavities; the device acts as a tuner for electrical characteristics by eliminating reflections; the ferromagnetic fluid varies the shape of the waveguide creating a full or partial obstruction (i.e. changing the electrical characteristics and varying the length when the waveguide is obstructed (i.e. shortening) by blocking the

Art Unit: 2817

signal) (e.g. see Col. 3, lines 36-40) (Claim 13); the tuner can be automatically controlled thus inherently a control signal would be present (e.g. see Col. 1, lines 40-50); and the amount of fluid (i.e. volume) is controlled (e.g. see Col. 3, lines 49-51).

Page 3

However, Pinson does not explicitly teach whether the fluid is a conductive fluid (Claim 11), or that the fluid constrained in the cavities modifies a cutoff (Claim 12). John et al. teaches that ferromagnetic fluid can be conductive (e.g. see Col. 1, lines 13-20).

It would have been considered obvious to one of ordinary skill in the art to have substituted a conductive ferromagnetic fluid, such as taught by John et al., in place of the generic ferromagnetic fluid in the Pinson device, because it would have been a mere selection of a well-known art-recognized equivalent ferromagnetic fluid means for use in the tuner. Also, as an obvious consequence of the substitution, the structure of the combination of Pinson and John would function equivalently to the presently claimed function of Claim 12, especially since the combination structure of Pinson and John is the same as the claimed structure.

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Application/Control Number: 10/632,632

Art Unit: 2817

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claim 1 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 9 and 12-13 of copending Application No. 10/648913. Although the conflicting claims are not identical, they are not patentably distinct from each other because the co-pending claims include all of the limitations of the present claim but also claim additional limitations (i.e. the co-pending claims are more narrow).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

6. Claim 10 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 9 and 12-13 of copending Application No. 10/648913 in view of Pinson.

The co-pending claims teach a variable waveguide, but do not teach a control system for transferring the fluid in and out of the cavity.

Pinson teaches automatically controlling fluid flow as described above.

It would have been considered obvious to one of ordinary skill in the art to have included a control system such as taught by Pinson in the co-pending claim waveguide, because it would have provided the advantageous benefit of the ability to automatically control or remotely control the fluid tuning of the device (e.g. see Pinson (Col. 1, lines 40-50).

This is a provisional obviousness-type double patenting rejection.

Application/Control Number: 10/632,632 Page 5

Art Unit: 2817

7. Claims 1-18 are is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 10/614149. Although the conflicting claims are not identical, they are not patentably distinct from each other because the co-pending claims include all of the limitations of the present claim but also claim additional limitations (i.e. the co-pending claims are more narrow).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen E. Jones whose telephone number is 571-272-1762. The examiner can normally be reached on Monday through Friday from 8 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen Jones
Patent Examiner
Art Unit 2817